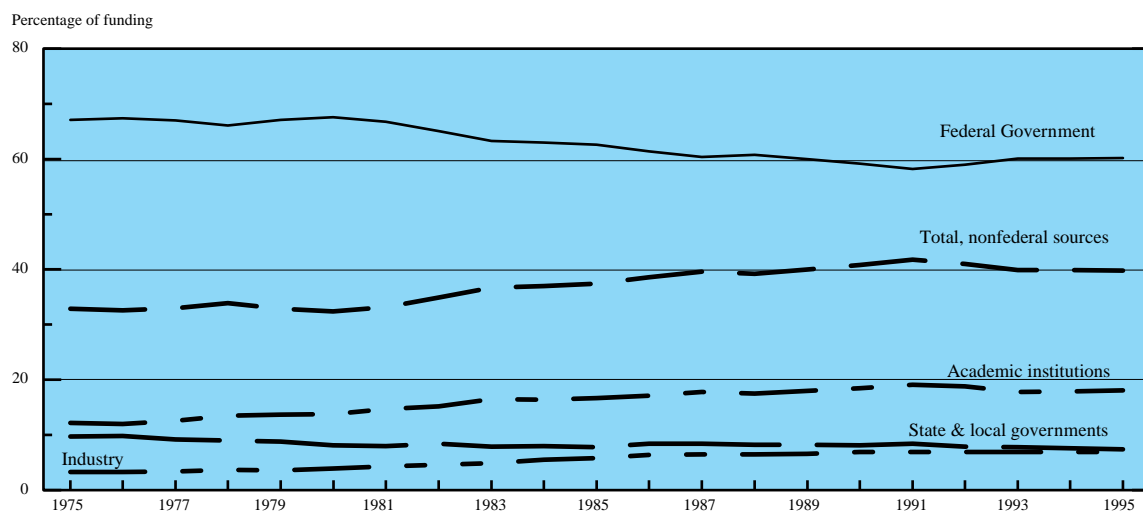


Figure 7. Sources of academic R&D funding, by sector



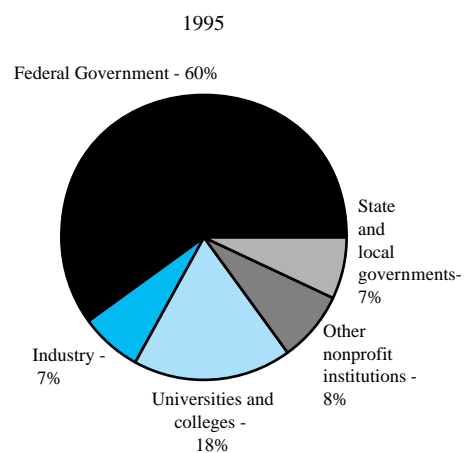
NOTE: Data for 1994 and 1995 are estimates.

SOURCES: National Science Foundation, Division of Science Resources Studies (SRS), Academic Science and Engineering: R&D Expenditures: Fiscal Year 1993, Detailed Statistical Tables, NSF 95-332 (Arlington, VA: NSF, 1995); and SRS, annual series.

Figure 8. Academic R&D expenditures, by source of funds

(Millions of dollars)

Year	Total	Federal Govt.	State and local govt.s	Industry	U&C	Other nonprofit institutions
1985	9,686	6,063	752	560	1,617	694
1986	10,927	6,710	915	700	1,869	733
1987	12,152	7,342	1,023	790	2,169	828
1988	13,462	8,191	1,106	872	2,356	936
1989	14,975	8,988	1,233	995	2,698	1,071
1990	16,283	9,634	1,324	1,128	3,006	1,192
1991	17,577	10,230	1,473	1,205	3,362	1,307
1992	18,794	11,090	1,491	1,291	3,527	1,395
1993	19,911	11,957	1,559	1,374	3,552	1,469
1994 (prelim.)	20,950	12,600	1,600	1,450	3,750	1,550
1995 (prelim.)	21,600	13,000	1,600	1,500	3,900	1,600

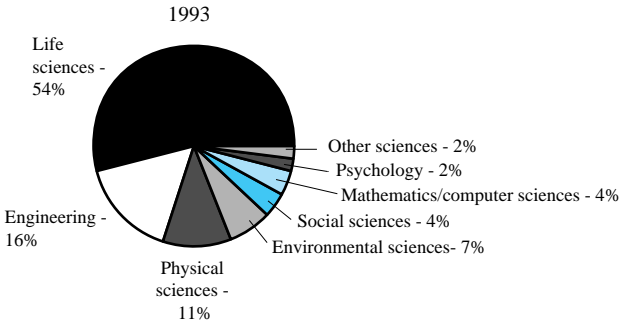


NOTE: Details may not add to total because of rounding.

KEY: U&C = Universities and colleges.

SOURCES: National Science Foundation, Division of Science Resources Studies (SRS), *Academic Science and Engineering: R&D Expenditures: Fiscal Year 1993*, Detailed Statistical Tables, NSF 95-332 (Arlington, VA: NSF, 1995); and SRS, unpublished tabulations.

Figure 9. Academic R&D expenditures, by field



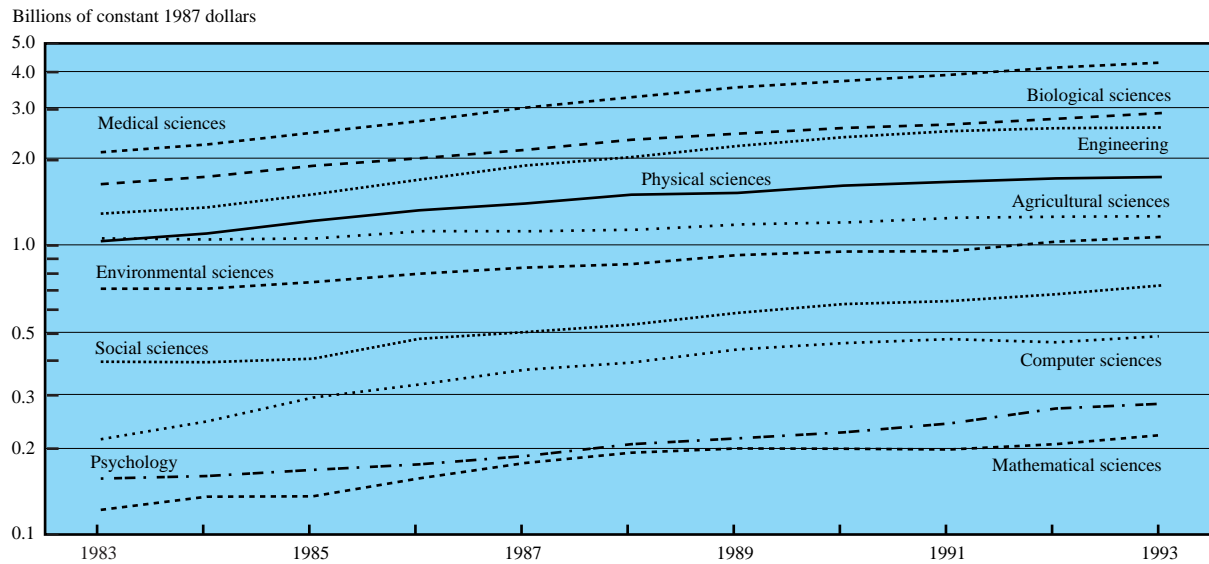
NOTE: Because of rounding, details may not add to 100.

SOURCES: National Science Foundation, Division of Science Resources Studies (SRS), Academic Science and Engineering: R&D Expenditures: Fiscal Year 1993, Detailed Statistical Tables, NSF 95-332 (Arlington, VA: NSF, 1995); and SRS, unpublished tabulations.

(Millions of dollars)

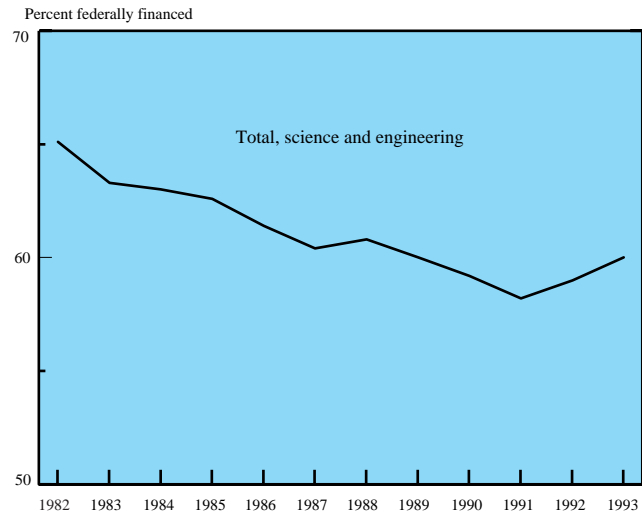
Field	1986	1987	1988	1989	1990	1991	1992	1993
Total.....	10,927	12,152	13,462	14,975	16,283	17,577	18,794	19,991
Physical sciences.....	1,286	1,398	1,554	1,646	1,806	1,939	2,051	2,124
Mathematics.....	152	177	199	215	222	230	247	272
Computer sciences.....	321	372	408	473	515	554	556	597
Environmental sciences.....	776	839	894	1,003	1,068	1,116	1,239	1,318
Life sciences.....	5,890	6,528	7,257	8,060	8,725	9,471	10,183	10,828
Psychology.....	170	187	213	233	253	283	328	349
Social sciences.....	462	502	552	633	703	750	815	896
Other sciences.....	228	256	290	318	336	331	314	375
Engineering.....	1,641	1,892	2,096	2,392	2,656	2,903	3,060	3,151

Figure 10. Academic R&D expenditures, by field



SOURCE: National Science Foundation, Division of Science Resources Studies, Science and Engineering Indicators 1996, NSB 96-21 (Arlington, VA: NSF, 1996).

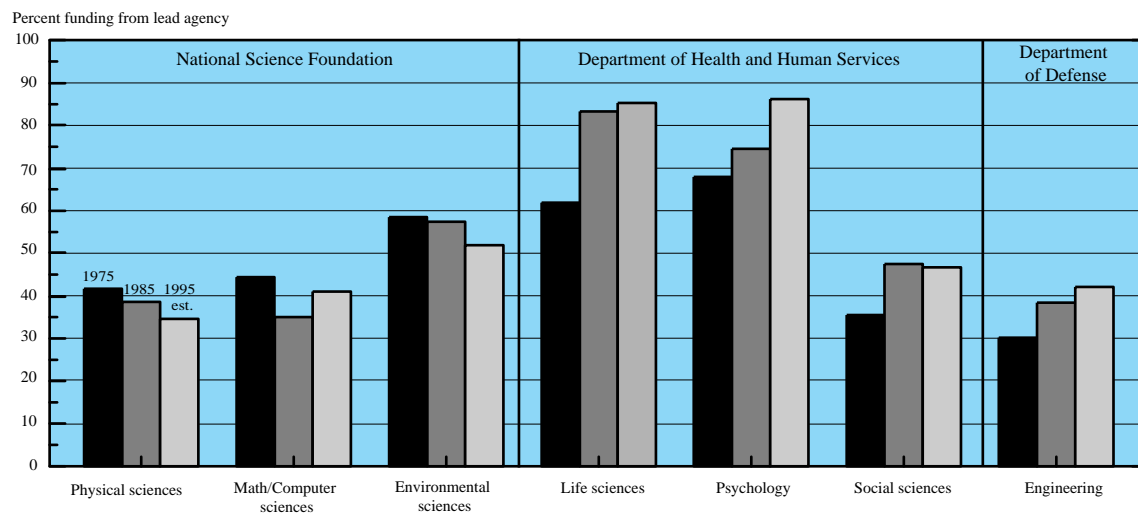
Figure 11. Percent of academic R&D which is federally financed, by field



SOURCE: National Science Foundation, Division of Science Resources Studies, Academic Science and Engineering: R&D Expenditures: Fiscal Year 1993, Detailed Statistical Tables, NSF 95-332 (Arlington, VA: NSF, 1995).

Percent federally financed				
Field	1982	1986	1992	1993
Total science & engineering.....	65	61	59	60
Total sciences.....	65	62	59	60
Physical sciences.....	79	76	72	71
Mathematical sciences.....	74	76	74	75
Computer sciences.....	72	72	68	71
Environmental sciences.....	70	67	64	66
Life sciences.....	62	59	58	59
Psychology.....	68	67	65	67
Social sciences.....	46	37	35	38
Other sciences.....	57	47	33	36
Engineering.....	68	60	57	59

Figure 12. Academic funding provided by current lead Federal R&D funder, by field



NOTE: These data represent Federal obligations to U.S. universities and colleges.

SOURCE: National Science Foundation, Division of Science Resources Studies, Federal Funds for Research and Development: Federal Obligations for Research to Universities and Colleges by Agency and Detailed Field of Science and Engineering: Fiscal Years 1975-95, NSF 95-323 (Arlington, VA: NSF, 1995).